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Cluster Management Commands-2

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Chapter 1 Cluster Management Commands

1.1 cluster

[Function]

Enable the cluster function, and enter the cluster management mode. The **no cluster** command can stop the cluster function.

[Command Format]

[no] cluster

[Default]

No cluster

[Command Modes]

Global configuration mode; Privileged EXEC

[Executing Command Instruction]

With this command a switch can set itself as a commander and enter cluster management function. Generally speaking, in order to manage a layer-2 network only one commander is required. When start cluster management, user can take some actions like add, enable and delete cluster members. When the cluster manager is stopped, all the cluster members will be deleted, and recover themselves back to candidates.

[Command Executing Echo]

This switch has been a member, it can not be a COMMANDER.

Cluster management startup unsuccessfully.

Cluster management shutdown successfully.

Cluster management shutdown unsuccessfully.

[Example]

Start cluster management:

Raisecom(config)#**cluster**

Stop cluster management:

Raisecom(config)#**no cluster**

[Related commands]

Commands	Description
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show cluster	Show cluster management related information
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1.2 cluster-autoactive

[Function]

Enable automatically activating cluster function. **no cluster-autoactive** command will disable automatically activating cluster function.

[Command Format]

[no] cluster-autoactive

[Default]

Default configuration is autoactive function disabled.

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

Users can use **cluster-autoactive** command to enable automatically activating function. **no cluster-autoactive** command will disable automatically activating function. When the autoactive function is enabled, and the commander MAC address is configured, the switch will set itself as an active member.

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Start the **autoactive** function:

Raisecom(config)#**cluster-autoactive**

Stop the **auto active** function:

Raisecom(config)#**no cluster-autoactive**

[Related commands]

Commands	Description
cluster-autoactive commander-mac	Configure the MAC address of the command associated switch
show cluster	Show the cluster management related information.

1.3 cluster-autoactive commander-mac

[Function]

Configure cluster commander MAC address. **no cluster-autoactive commander-mac-command** will recover commander MAC address to default value:

0000.0000.0000

[Command Format]

[no] cluster-autoactive commander-mac *HHHH.HHHH.HHHH*

[Default]

Default configuration is 0000.0000.0000.

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

By **cluster-autoactive commander-mac** command, the MAC address of commander switch can be configured. **no cluster-autoactive commander-mac** will recover to the default commander address to 0000.0000.0000.

This MAC address is only available when the autoactive function is active. When the autoactive function is started, and the switch will automatically be active.

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Configure the MAC address of autoactive associated switch to 1111.1111.1111:

Raisecom(config)#**cluster-autoactive commander-mac** *1111.1111.1111*

Recover MAC address of the commander MAC address:

Raisecom(config)#**no cluster-autoactive commander-mac**

[Related commands]

Commands	Description
[no] cluster-autoactive	Enable or disable the autoactive function
show cluster	Show cluster management related information

1.4 member

[Function]

Add, active and delete cluster member.

[Command Format]

member *HHHH.HHHH.HHHH* [**active** *username password*]

member *HHHH.HHHH.HHHH* **suspend**

no member {*HHHH.HHHH.HHHH* / *all*}

[Parameter]

active: active this member

HHHH.HHHH.HHHH: to active member which has this MAC address

username: username of the member to be active, the maximum length is 48 characters

password: password of active member to be active, the maximum length is 48 characters

suspend: to suspend this member

all: delete all the members

[Command Modes]

Cluster configuration mode; privileged user.

[Executing Command Instruction]

Use **member** command to add and active the candidates to the cluster or active some members; it also can delete some or all the member from the cluster. When the key word “active” is not used, the command will add the member to the cluster, but not active the member (but if auto-active function of this member is enabled, and the auto-active commander for this member is current switch, then the member will be auto activated when it is added).

[Explanation of command execution echo]

This device is not a COMMANDER.

There is no this member.

Member add unsuccessfully.

Member add successfully.

This member has been acitved.

Add successfully, active successfully.

Add successfully, active unsuccessfully, this member is not operation up.

add successfully, active unsuccessfully, the switch be configed is a commander.

Add successfully, active unsuccessfully, the switch be configed is already a member.

Add successfully, active unsuccessfully, username or password is wrong.

Add successfully, active unsuccessfully, timeout.

This member has not been activated.

Delete member unsuccessfully.

Delete successfully

[Example]

Add the candidate 1111.1111.1111 to the cluster:

Raisecom(config-cluster)#**member** 1111.1111.1111

Add the candidate 1111.1111.1111 to the cluster and active the member:

Raisecom(config-cluster)#**member** 1111.1111.1111 *active*

Add and suspend the cluster member 1111.1111.1111:

Raisecom(config-cluster)#**member** 1111.1111.1111 *suspend*

Delete cluster member 1111.1111.1111:

Raisecom(config-cluster)#**no member** 1111.1111.1111

Delete all the cluster member:

Raisecom(config-cluster)#**no member** *all*

[Related commands]

Commands	Description
show cluster member [HHHH.HHHH.HHHH]	Show cluster member information.

1.5 member auto-build

[Function]

Automatically active all the member switches.

[Command Format]

member auto-build [{**active** *username password*}] [**active** *username password all*]

[Parameter]

active: active cluster member

username: username of the member that to be active, the maximum length is 48 characters

password: password of the member that to be active, the maximum length is 48 characters

all: automatically build and active all the candidates.

[Command Modes]

Cluster configuration mode; privileged user.

[Executing Command Instruction]

In order to make the operation of add and active conveniently, this command permit user using the same username and password for all the candidate adding and active, or to automatically active all the members which auto-active commander is pointed to current switch.

Using **member auto-build** command to automatically add and activate all the candidate members that auto-activate commander is pointed to current switch.

Using **member auto-build active username password** command under the prompt command line, all the candidate members can be added and activated.

Using **member auto-build active username password all** command to automatically add and activate all the candidate members.

[Explanation of command execution echo]

this device is not a COMMANDER.

there is no such a candidate.

Apply the command **member auto-build active** username password or **member auto-build active** username password all on the commander switch, which does have candidate.

there is no candidate that can be autoactivated.

Apply the command **member auto-build** on the switch, which cannot be auto-build.

too many members have been added.

too many members have been added.

HHHH.HHHH.HHHH : add successfully, active successfully.

HHHH.HHHH.HHHH : add successfully, active unsuccessfully, this member is not operation up.

HHHH.HHHH.HHHH : add successfully, active unsuccessfully, the switch be configed is a commander.

HHHH.HHHH.HHHH : add successfully, active unsuccessfully, the switch be configed is already a member.

HHHH.HHHH.HHHH : add successfully, active unsuccessfully, username or password is wrong.

HHHH.HHHH.HHHH : add successfully, active unsuccessfully, timeout

[Example]

Add all the candidates into the cluster and activate them:

Raisecom(config-cluster)# **member auto-build active raisecom raisecom all**

Add all the candidates into the cluster serially and activate them:

Raisecom(config-cluster)# **member auto-build active raisecom raisecom**

Automatically add the candidates which can be self-activated into the cluster and activate them:

Raisecom(config-cluster)# **member auto-build**

[Related commands]

Commands	Description
show cluster member <i>[HHHH.HHHH.HHHH]</i>	Show cluster member information.

1.6 rcommand**[Function]**

Under cluster mode, enter cluster member remotely from commander switch.

[Command Format]

rcommand {[*hostname*] [*HHHH.HHHH.HHHH*]}

[Parameter]

hostname: the cluster member's name

HHHH.HHHH.HHHH: the MAC address for cluster member who want to login.

[Command Modes]

Cluster configuration mode; privileged user (priority 15).

[Executing Command Instruction]

Only the privileged user with priority 15 can use this command.

This command can only be applied on the switch which enable cluster function.

[Explanation of command execution echo]

Connect unsuccessfully!

Connection to host lost

Failed! This device is NOT a commander!

Failed! This hostname is NOT in the cluster!

Failed! This mac address is NOT in the cluster!

MAC address which match this hostname in the cluster::

AAAA.BBBB.CCCC

DDDD.EEEE.FFFF

Duplicate hostname in the cluster, please input the mac address of the device

Display the above information when the input device name is used by several users in a cluster.

[Example]

Login the cluster member with a MAC address AAAA.BBBB.CCCC:

```
raisecom(config-cluster)# rcommand AAAA.BBBB.CCCC
```

Login the cluster member “swA”:

```
raisecom(config-cluster)# rcommand swA
```



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